

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of
STEPHEN F. GASS, JOEL F. JENSEN; ANWYL
M. McDONALD, DAVID S. D'ASCENZO and
ANDREW L. JOHNSTON

Date: March 29, 2004

Serial No.: 09/929,241

Examiner Boyer D. Ashley

Filed: August 13, 2001

Group Art Unit 3724

For: TRANSLATION STOP FOR USE IN POWER EQUIPMENT

To: Commissioner for Patents
Attention: Examiner Boyer D. Ashley
Group Art Unit 3725
P.O. Box 1450
Alexandria, Virginia 22313-1450

DECLARATION OF STEPHEN F. GASS

I, Stephen F. Gass, declare as follows:

1. I am a named inventor in the above-identified application.

2. The claims currently pending in the above-identified application describe
woodworking machines.

3. In an Office Action mailed December 30, 2003, the Examiner rejected
claims in the above-identified application under 35 U.S.C. §103(a) in light of U.S. Patent
No. 3,785,230 to Lokey either alone or when combined with U.S. Patent No. 3,695,116
to Baur and/or U.S. Patent No. 4,560,033 to DeWoody et al. I am filing this declaration
to traverse those rejections and to submit evidence concerning non-obviousness.

4. My educational background is in physics. In 1986 I earned a Bachelor of
Science degree in physics from Oregon State University, and graduated summa cum

laude. In 1990 I was awarded a Ph.D. degree in physics from the University of California San Diego.

5. The U.S. Consumer Product Safety Commission, National Electronic Injury Surveillance System, Directorate for Epidemiology, reports that every year in the United States there are over 90,000 people severely injured with power saws. These are all severe injuries that require a visit to a hospital emergency room. About 10% of these injuries result in amputations. The number and severity of these injuries shows there is a long felt need for safer saws. Others have tried to solve this problem, as evidenced by the Lokey patent cited by the Examiner. However, the continued high number of severe injuries shows that those attempts have failed. Saws constructed as required by the claims currently pending in the above-identified application have the potential to significantly reduce the severity of these injuries.

6. The technology which is the basis for saws constructed as required by applicant's currently pending claims has been recognized with the following awards:

- Chairman's Commendation. The U.S. Consumer Product Safety Commission awarded the technology a Chairman's Commendation for significant contributions to product safety. That award was reported nationally on CNN Headline News.
- Challenger's Award. At an International Woodworking Fair in Atlanta, Georgia, the technology won the Challenger's Award, which is the woodworking industry's highest honor. It recognizes the most innovative and technically advanced improvements to woodworking equipment.

- Popular Science – One of the 100 Best New Innovations. The magazine *Popular Science* identified the technology as one of the 100 best new innovations of 2002.
- Workbench Magazine – One of the Top 10 Tools for 2003. *Workbench* magazine included the saws incorporating the technology on its list of the top 10 innovative tools for 2003.
- Woodwork Institute of California Endorsement. The Woodwork Institute of California has endorsed the technology, stating:

As a Trade Association in the construction industry (representing over 250 manufacturers of architectural millwork with an excess of 4,000 employees, all of whom use saws of one type or another) we find your SawStop technology and its potential of eliminating or reducing worker injury of extreme significance. Generally, we would not endorse a commercial product; however the potential benefit to our members and their employees of implementing the SawStop technology on the tools used within our industry overrides such.

- Editor's Choice Award, Tools of the Trade. The magazine *Tools of the Trade* awarded the technology its 2001 Editor's Choice Award in recognition of its significance.

7. The technology that is the basis for the currently pending claims has also been the subject of extensive media coverage, including national coverage by CNN Headline News, by the television program NEXT@CNN, by the Associated Press, and by Paul Harvey on the ABC Radio Network. Numerous magazines have published reports about the technology saying it is "revolutionary," "unique" and "ingenious."

8. Several magazines have specifically mentioned that the technology which is the basis for the currently pending claims includes a brake pawl that pivots into the teeth of the blade. For example, the March 2001 edition of *Wood* magazine reported, "When the braking system is triggered, a capacitor dumps its charge on the fuse, causing it to burn and allowing the spring to forcefully pivot the brake pawl into the teeth of the blade. The blade stops in a quarter-turn or less" The September 2000 issue of *Plastic Molding & Fabricating* magazine reported on the technology and explained: "Once the system detects this change in the electrical signal, it immediately forces a brake into the teeth of the blade. The brake absorbs the energy of the blade, bringing the blade to a complete stop in approximately 2-5 milliseconds." This feature of pivoting a brake pawl into the teeth of the blade is one of the features that allows the technology to work as it does in the time frame that it does.